FIG.1

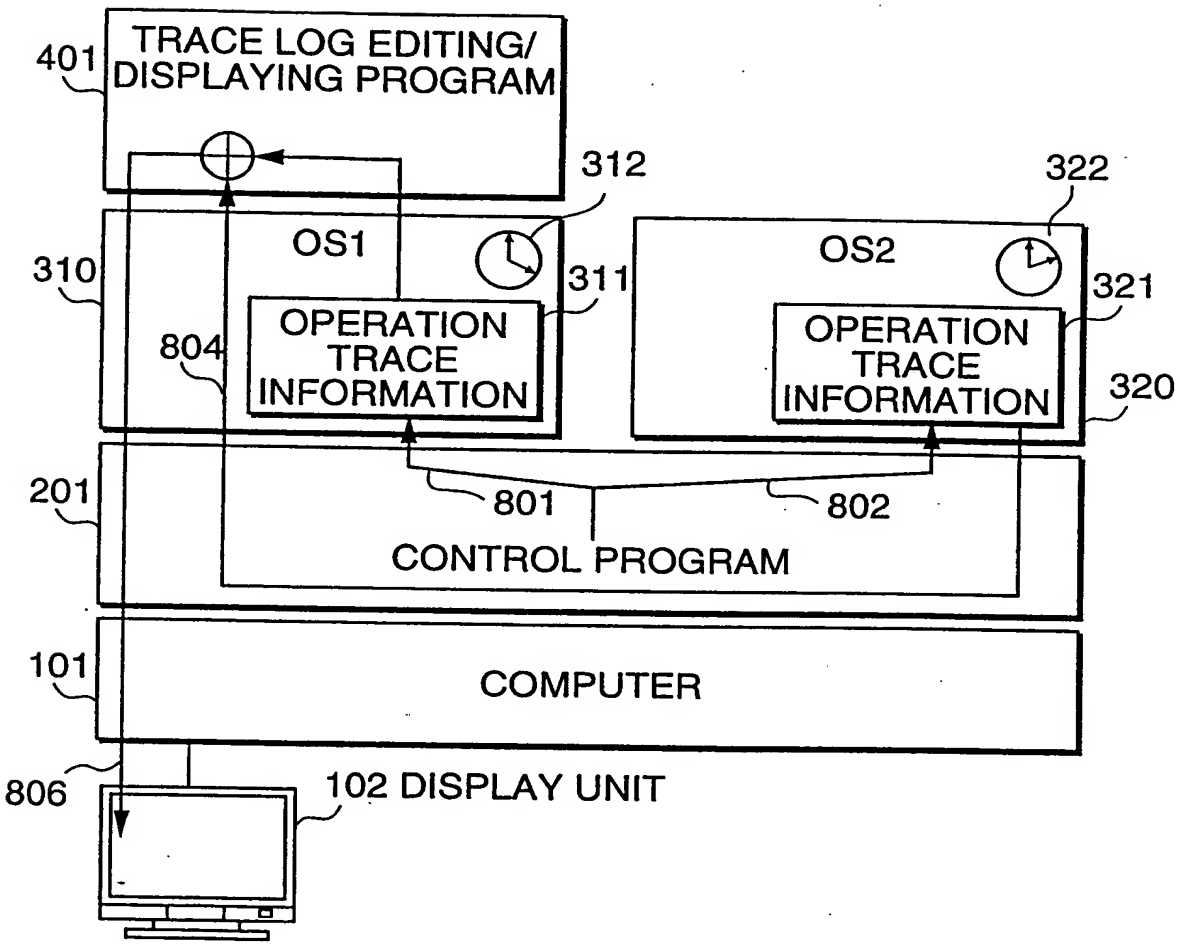

401
TRACE LOG EDITING/
DISPLAYING PROGRAM
312
322
OS1
OS2
310
311
321
OPERATION
TRACE
INFORMATION
804
OPERATION
TRACE
INFORMATION
320
201
801
802
CONTROL PROGRAM
101
COMPUTER
806
102 DISPLAY UNIT

FIG.2

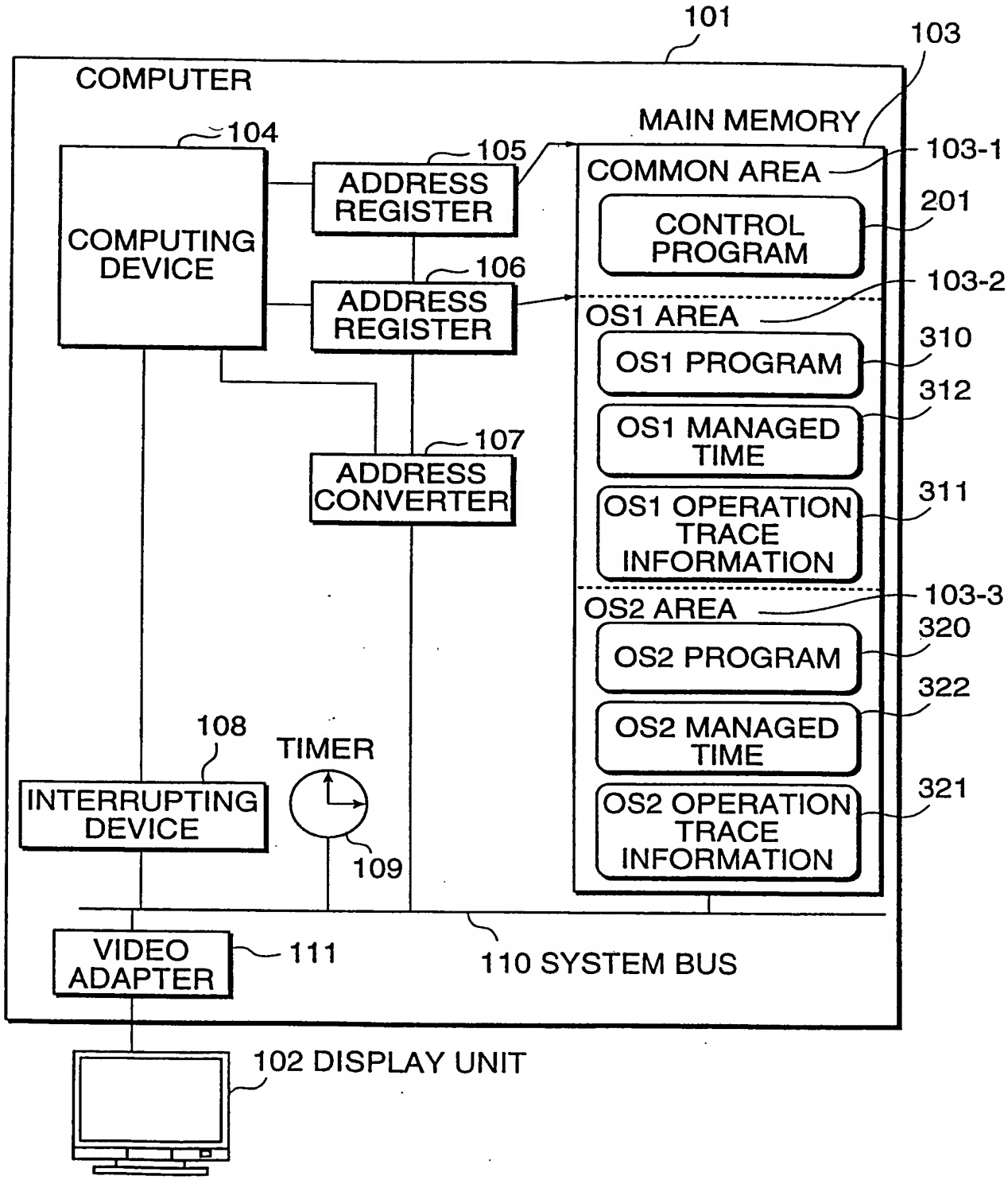

101
103
COMPUTER
MAIN MEMORY
104
105
ADDRESS REGISTER
COMMON AREA
103-1
COMPUTING DEVICE
201
CONTROL PROGRAM
106
ADDRESS REGISTER
103-2
OS1 AREA
310
OS1 PROGRAM
312
OS1 MANAGED TIME
107
ADDRESS CONVERTER
311
OS1 OPERATION TRACE INFORMATION
103-3
OS2 AREA
320
OS2 PROGRAM
322
OS2 MANAGED TIME
108
TIMER
INTERRUPTING DEVICE
321
OS2 OPERATION TRACE INFORMATION
109
VIDEO ADAPTER
111
110 SYSTEM BUS
102 DISPLAY UNIT

FIG.3

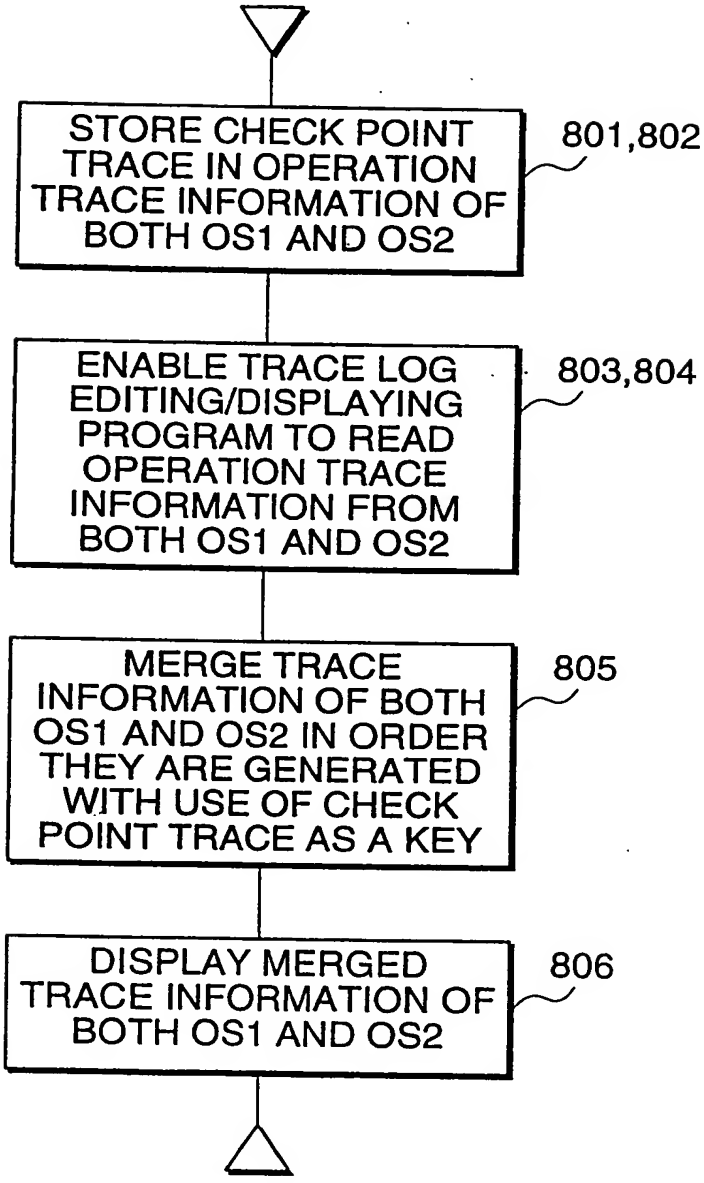

STORE CHECK POINT TRACE IN OPERATION TRACE INFORMATION OF BOTH OS1 AND OS2
801,802
ENABLE TRACE LOG EDITING/DISPLAYING PROGRAM TO READ OPERATION TRACE INFORMATION FROM BOTH OS1 AND OS2
803,804
MERGE TRACE INFORMATION OF BOTH OS1 AND OS2 IN ORDER THEY ARE GENERATED WITH USE OF CHECK POINT TRACE AS A KEY
805
DISPLAY MERGED TRACE INFORMATION OF BOTH OS1 AND OS2
806

FIG.4

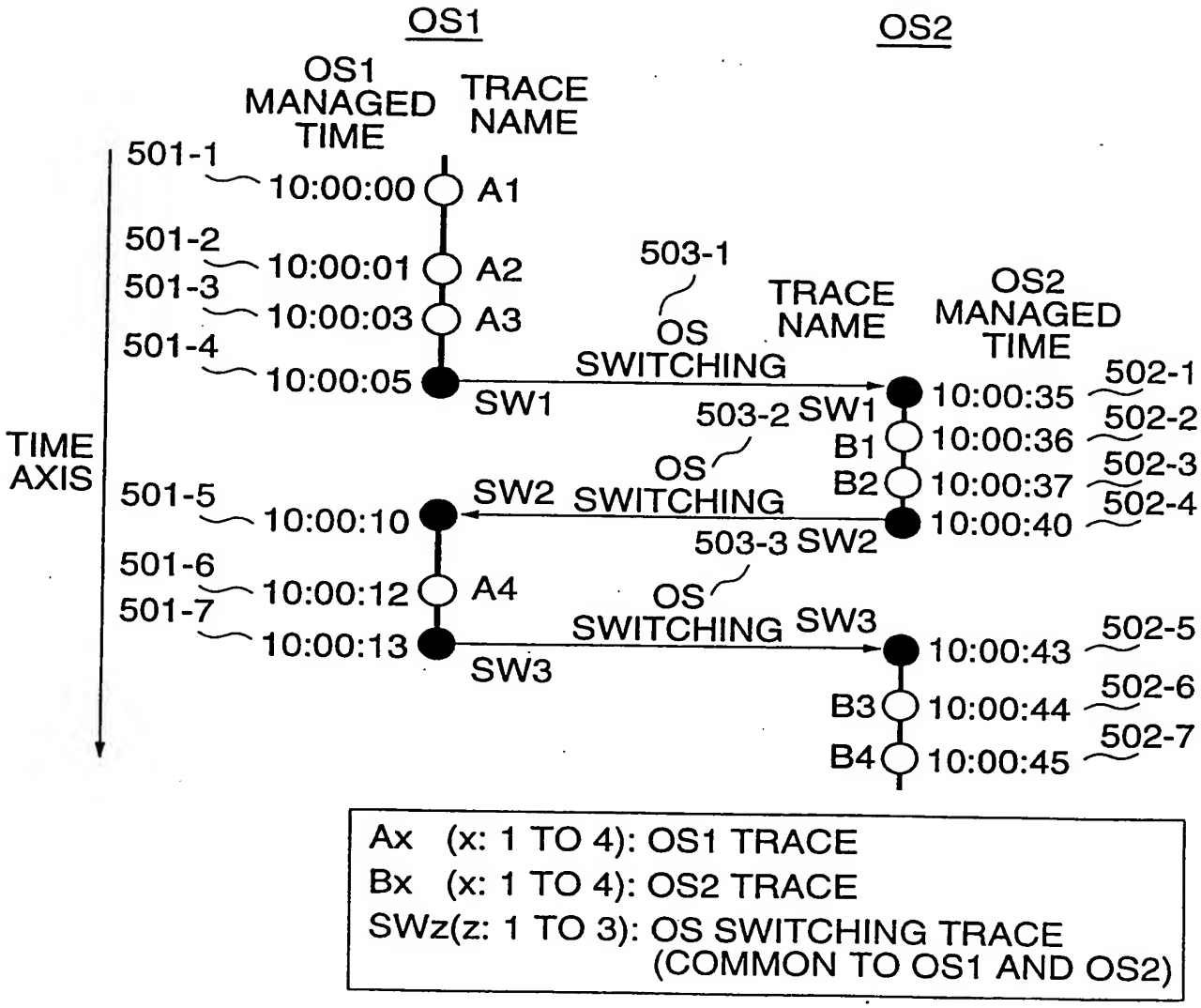

OS1
OS2
OS1 MANAGED TIME
TRACE NAME
501-1
10:00:00
A1
501-2
10:00:01
A2
501-3
10:00:03
A3
501-4
10:00:05
SW1
503-1
OS SWITCHING
TRACE NAME
OS2 MANAGED TIME
SW1
10:00:35
502-1
B1
10:00:36
502-2
B2
10:00:37
502-3
10:00:40
502-4
503-2
OS SWITCHING
SW2
501-5
10:00:10
501-6
10:00:12
A4
501-7
10:00:13
SW3
503-3
OS SWITCHING
SW3
10:00:43
502-5
B3
10:00:44
502-6
B4
10:00:45
502-7
TIME AXIS
Ax (x: 1 TO 4): OS1 TRACE
Bx (x: 1 TO 4): OS2 TRACE
SWz(z: 1 TO 3): OS SWITCHING TRACE
(COMMON TO OS1 AND OS2)

FIG.5

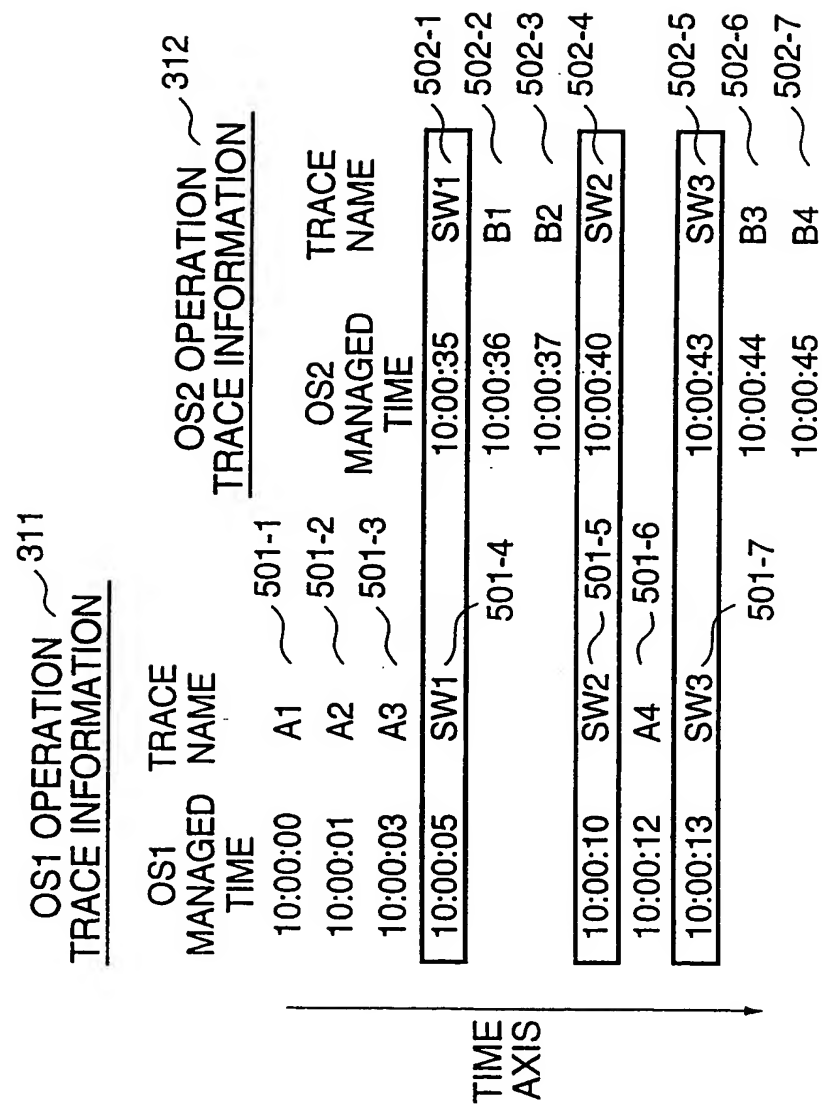

OS1 OPERATION TRACE INFORMATION
311
OS1 MANAGED TIME
TRACE NAME
10:00:00
A1
501-1
10:00:01
A2
501-2
10:00:03
A3
501-3
10:00:05
SW1
501-4
10:00:10
SW2
501-5
10:00:12
A4
501-6
10:00:13
SW3
501-7
OS2 OPERATION TRACE INFORMATION
312
OS2 MANAGED TIME
TRACE NAME
10:00:35
SW1
502-1
10:00:36
B1
502-2
10:00:37
B2
502-3
10:00:40
SW2
502-4
10:00:43
SW3
502-5
10:00:44
B3
502-6
10:00:45
B4
502-7
TIME AXIS

FIG.6

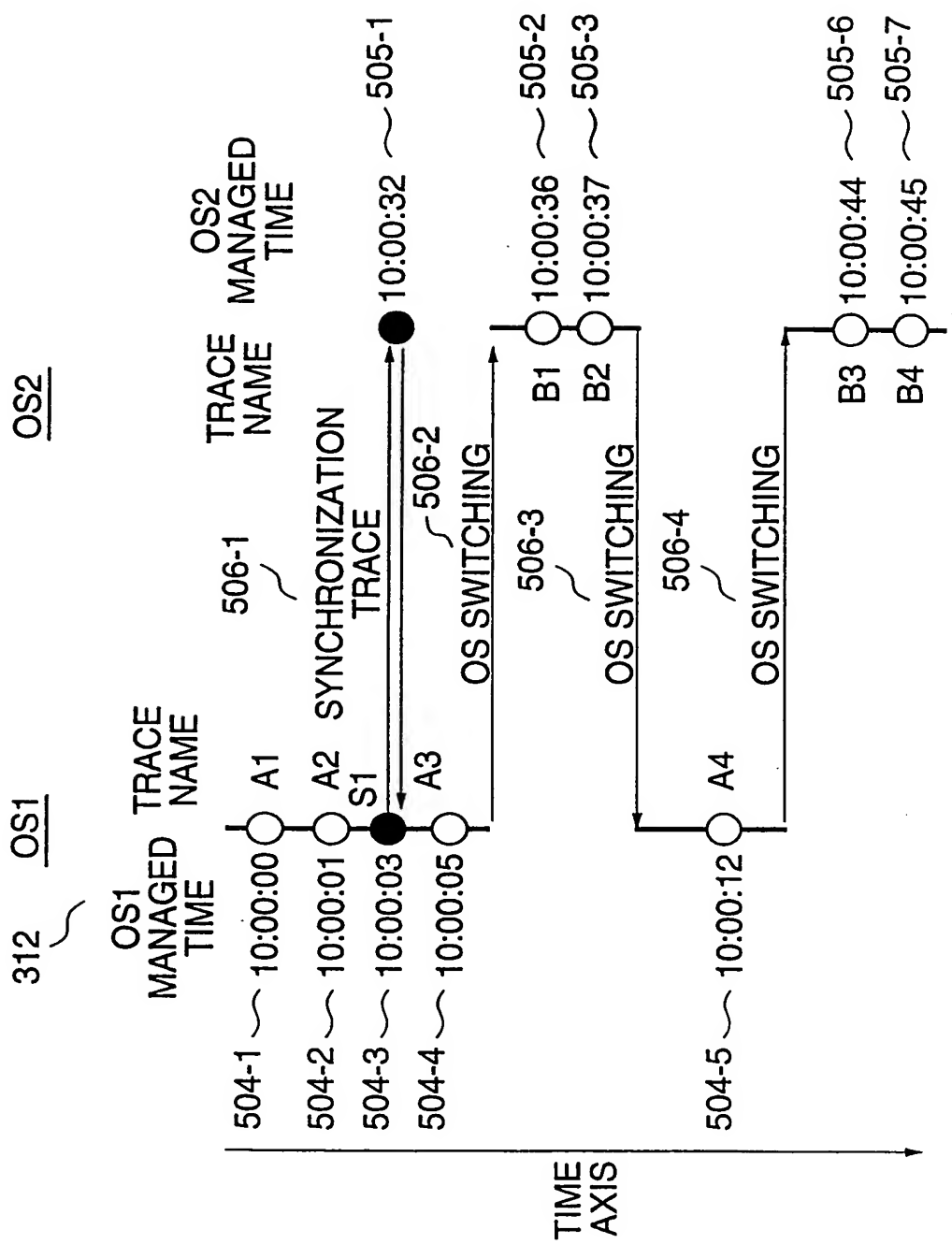

312
OS1
OS2
OS1 MANAGED TIME
TRACE NAME
OS2 MANAGED TIME
TRACE NAME
504-1
10:00:00
A1
506-1
504-2
10:00:01
A2
SYNCHRONIZATION TRACE
S1
504-3
10:00:03
A3
506-2
10:00:32
505-1
504-4
10:00:05
OS SWITCHING
506-3
B1
10:00:36
505-2
B2
10:00:37
505-3
OS SWITCHING
506-4
504-5
10:00:12
A4
OS SWITCHING
B3
10:00:44
505-6
B4
10:00:45
505-7
TIME AXIS

FIG.7

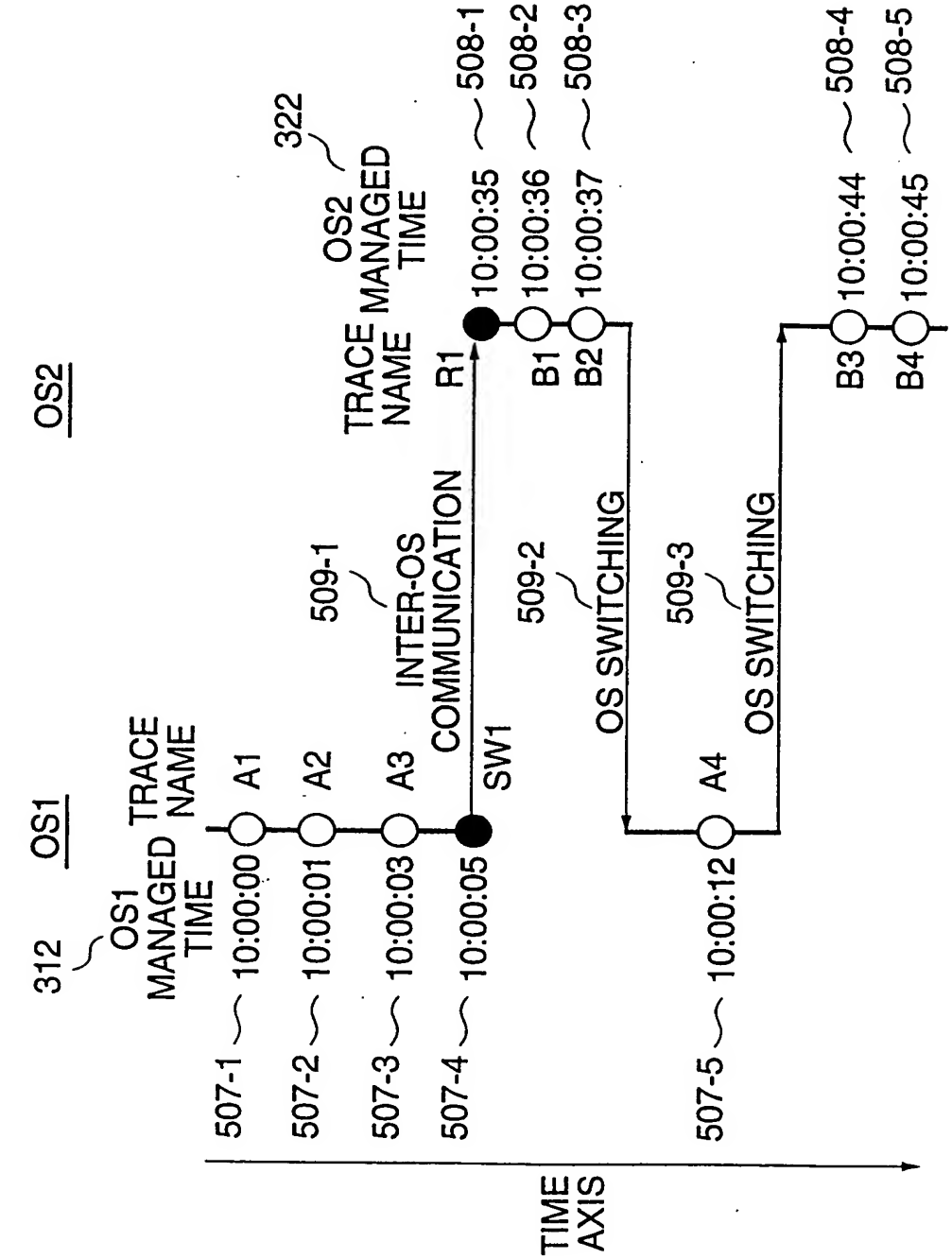

312
OS1
OS1
MANAGED
TIME
TRACE
NAME
OS2
322
OS2
MANAGED
TIME
TRACE
NAME
507-1
10:00:00
A1
507-2
10:00:01
A2
509-1
507-3
10:00:03
A3
INTER-OS
COMMUNICATION
507-4
10:00:05
SW1
R1
10:00:35
508-1
B1
10:00:36
508-2
509-2
OS SWITCHING
B2
10:00:37
508-3
509-3
507-5
10:00:12
A4
OS SWITCHING
B3
10:00:44
508-4
B4
10:00:45
508-5
TIME
AXIS

FIG.8

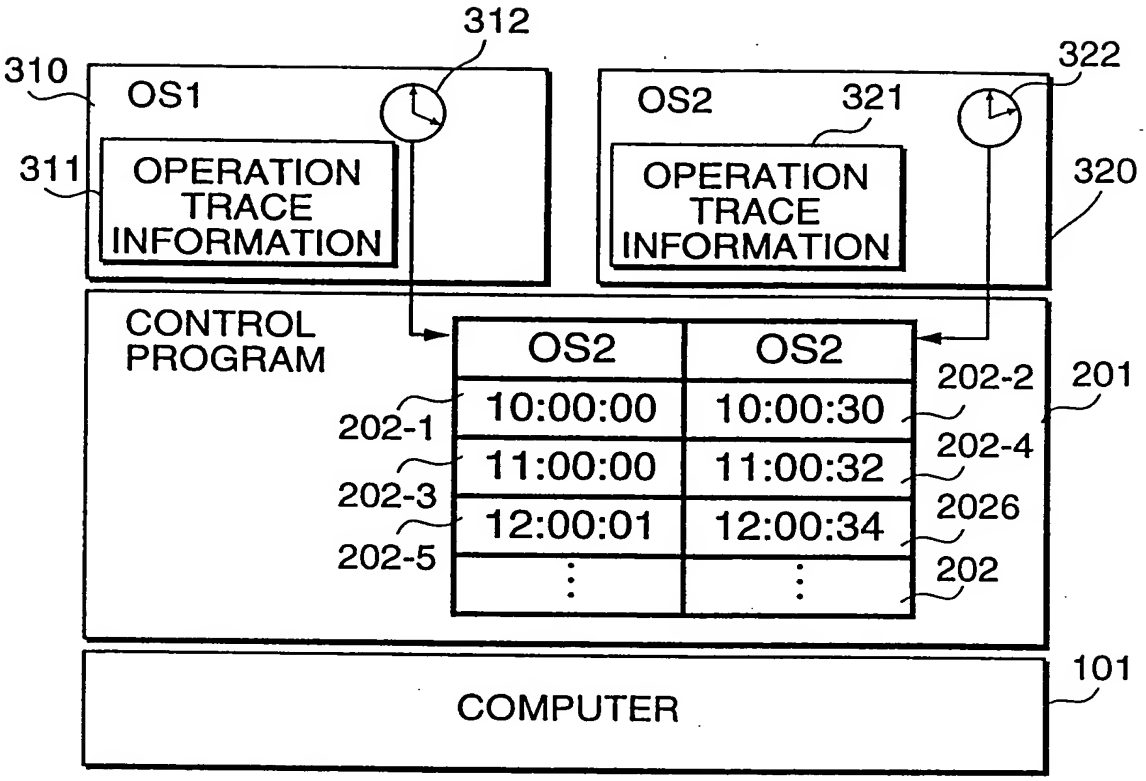

312
310
OS1
322
OS2
321
311
OPERATION TRACE INFORMATION
OPERATION TRACE INFORMATION
320
CONTROL PROGRAM
OS2
OS2
202-2
201
202-1
10:00:00
10:00:30
202-4
202-3
11:00:00
11:00:32
2026
202-5
12:00:01
12:00:34
202
101
COMPUTER

FIG.9

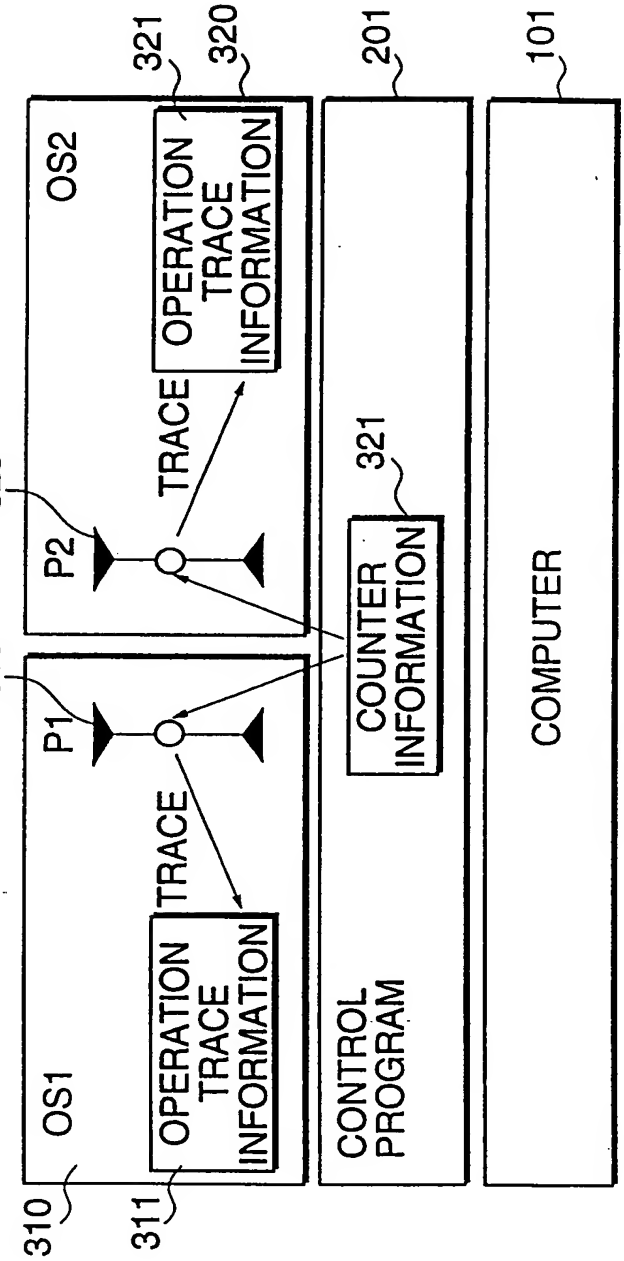
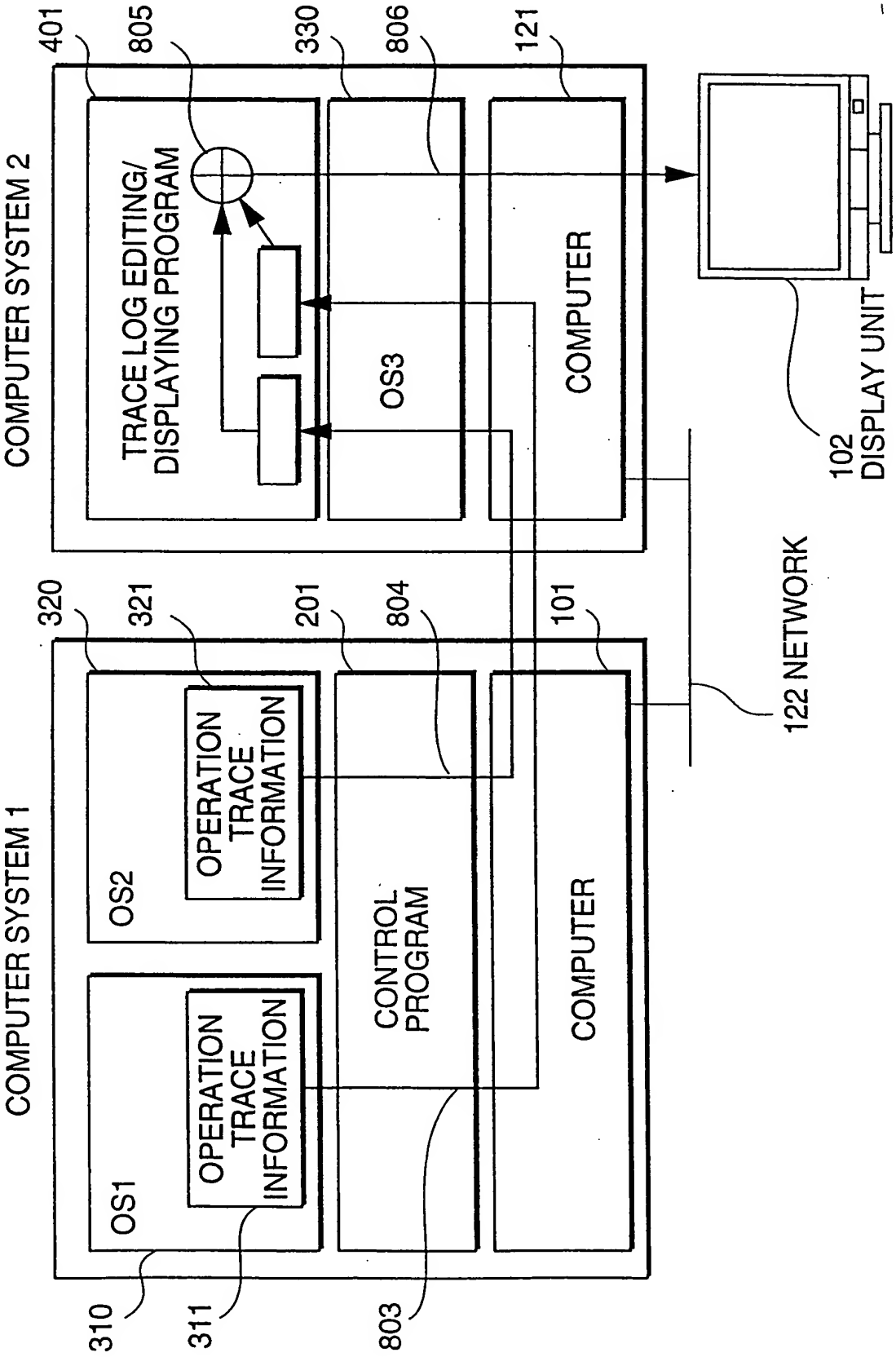

310
OS1
311
OPERATION TRACE INFORMATION
TRACE
313
P1
323
P2
OS2
321
320
OPERATION TRACE INFORMATION
TRACE
CONTROL PROGRAM
201
321
COUNTER INFORMATION
COMPUTER
101

FIG.10


COMPUTER SYSTEM 1
COMPUTER SYSTEM 2
OS1
OS2
OS3
OPERATION TRACE INFORMATION
OPERATION TRACE INFORMATION
CONTROL PROGRAM
COMPUTER
COMPUTER
TRACE LOG EDITING/ DISPLAYING PROGRAM
122 NETWORK
102 DISPLAY UNIT
310
311
803
320
321
201
804
101
401
805
330
806
121